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NOTICE OF ALLOWANCE AND FEE(S) DUE

26021

7590

09/23/2008

HOGAN & HARTSON L.L.P. 1999 AVENUE OF THE STARS SUITE 1400 LOS ANGELES, CA 90067

EXAMINER				
VAN, LUAN V				
ART UNIT	PAPER NUMBER			
1705				

DATE MAILED: 09/23/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/774,326	02/06/2004	Takuji Nomura	81846.0035	8530

TITLE OF INVENTION: SOLAR CELL MODULE, METHOD OF LAYING SOLAR CELL MODULES, AND APPARATUS FOR PREVENTING

SOLAR CELL MODULES FROM BEING BLOWN OFF

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/23/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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If the SMALL ENTITY is shown as NO:

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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appropriate. All further indicated unless correct maintenance fee notifica	correspondence includir ed below or directed oth	ng the Patent, advance on nerwise in Block 1, by (a	rders and notification of r a) specifying a new corre	naintenance fees v pondence address	vill be ; and/o	mailed to the current (b) indicating a sepa	correspondence address as trate "FEE ADDRESS" for
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1999 AVENUE SUITE 1400	ARTSON L.L.P. OF THE STARS		I he Stat add tran	reby certify that thes Postal Service v	is Fee(e of Mailing or Trans s) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the d	mission g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.
LOS ANGELES	s, CA 90067						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTC	RNEY DOCKET NO.	CONFIRMATION NO.
10/774,326	02/06/2004	•	Takuji Nomura		•	81846.0035	8530
TITLE OF INVENTION SOLAR CELL MODUL			AYING SOLAR CELL	MODULES, AND	APPA	ARATUS FOR PREV	ENTING
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nonprovisional	NO	\$1440	\$300	\$ 0		\$1740	12/23/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS]			
VAN, L	UAN V	1795	136-244000				
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 			registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
PLEASE NOTE: Un recordation as set fort (A) NAME OF ASSI	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee pletion of this form is NO	T a substitute for filing an (B) RESIDENCE: (CITY	atent. If an assign assignment. and STATE OR C	COUNT	TRY)	ocument has been filed for
Please check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 Co	orporat	on or other private gro	oup entity Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies		4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
5. Change in Entity Sta	itus (from status indicated as SMALL ENTITY statu	· · · · · · · · · · · · · · · · · · ·	☐ b. Applicant is no lon	ger claiming SMA	LL EN	ΓΙΤΥ status. See 37 CI	FR 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte ttes Patent and Trademark	d from anyone other than t				ne assignee or other party in
Authorized Signature				Date			
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu. Virginia 22313-1450. DC	CFR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR	on is required to obtain or a 1.14. This collection is estable the individual of the individual of the complete the complete process of the complete p	etain a benefit by t imated to take 12 : idual case. Any co er, U.S. Patent and D THIS ADDRESS	he pub minute: ommen Trader S. SEN	tic which is to file (and to complete, including to on the amount of tin nark Office, U.S. Depp D TO: Commissioner	by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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26021 75	590 09/23/2008		EXAMINER			
HOGAN & HARTSON L.L.P.			VAN, L	UAN V		
1000 AVENUE O	F THE STARS		ART UNIT	PAPER NUMBER		
SUITE 1400	THESTANS		7 KT 01 111	TAN EKTOMBEK		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/774,326	NOMURA ET AL.	
Notice of Allowability	Examiner	Art Unit	
	LUAN V. VAN	1795	
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED or other appropriate completes. This application is and MPEP 1308.	in this application. If not included nunication will be mailed in due course.	
1. This communication is responsive to <u>Amendment filed on A</u>	<u>August 1, 2008</u> .		
2. \boxtimes The allowed claim(s) is/are $\underline{7, 14-17}$.			
3.	e been received. e been received in Applica cuments have been received of this communication to face of this communication to face of this application. Initiated. Note the attached Eles reason(s) why the oath set be submitted. Initiated of this application. Initiated of this application.	tion No red in this national stage application from the areply complying with the requirement of the area of the control of the drawings in the front (not the back) of the drawings in t	ents OF
each sheet. Replacement sheet(s) should be labeled as such in to 6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MA	TERIAL must be submitted. Note the	;
 Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08),	6. ☐ Interview Paper No 7. ☐ Examiner	Informal Patent Application Summary (PTO-413), b./Mail Date : 's Amendment/Comment 's Statement of Reasons for Allowance	

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DETAILED ACTION

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: claim 7 is directed to a method of laying solar cell modules that includes placement of a specific separate waterproof member between the solar cell module and the roofing tiles. The closest prior art is JP 11-200561, herein referred to as JP '561.

JP '561 teaches the laying of solar cell modules together with tiles (B) on the roof of a building (see Figure 11). As seen in Figure 1,4, and 11, there is a separate waterproof member (7) placed between each solar cell module and one tile (B) which are laid adjacent in the direction of a gradient of the roof. As seen schematically in Figure 11, said waterproof member (7) has substantially the same height as the height of the tiles (B). As seen in JP '561's Figures 1,4, and 11, the waterproof member (7) has a width narrower the tiles (B). The waterproof member (7) is a "rectangular box that opens at a lower portion thereof" to the extent that (7b) is one wall, (7D) is another wall, and (7E) is another wall, and (C) is in the opening of the box. The word "lower" is relative, and thus, when JP '561's Figures 4 and 11 are viewed upside down, the opening of waterproof member (7) is at a lower portion thereof. As seen in Figure 11, the waterproof member (7) has a trough section. This trough section renders waterproof a junction between the tile (B) to the right of the trough section and the solar module (A) adjacent thereto because waterproof member (7) is waterproof. As seen in Figure 11, the waterproof member (7) overlaps one side of a solar cell module and tile. Claim 7 as amended now further requires the rectangular box opens at a lower portion with respect

to the roof. Thus the word lower is no longer relative and requires the box to open facing the roof. Figure 11 of JP '561 shows the waterproof member to be open toward the sky or away from the roof. This configuration is not a rectangular box that opens at a lower portion thereof with respect to the roof. Further, altering the method of JP '561 by turning the waterproof member over so that it would open to the roof would destroy the invention of JP '561 and also not allow the member to fulfill its purpose as a waterproof member. Therefore the claim is allowable over the prior art.

The following is a statement of reasons for the indication of allowable subject matter: claims 14 through 16 require a method of laying solar cell modules together with tiles on a roof panel incorporating the use of specific fastening strips that engage the solar cell module and roof tiles in a specific manner. The closest prior art is JP 2000-226908, herein referred to as JP '908.

JP '908 teaches solar cell module tiles (1) that have already been laid on a roof (see Figure 6). Then, additional solar cell module tiles (1) are laid on the roof such that the eaves side of a solar cell module tile (1) to be laid is fastened to an upper portion of the ridge side of solar cell module tiles (1) that have already been laid (see Figures 6 and 8). As seen in Figure 1, the solar cell module (4) of a given solar cell module tile (1) is fastened to the eaves side of the solar cell module tiles (1) with fastening strips (8) (see also Figures 4 and 8). Alternatively, fastening strip (38) can be used, as seen in Figures 12 and 13. As seen in Figure 12, fastening strips (38) comprise a rectangular main part and the instant at least two rising parts that extend from the main part. The fastening strips (8) can also have a rectangular part and multiple rising parts as seen in

the embodiment of Figure 17(a). Fastening strips (8, 38) prevent solar cell modules (4) from being blow off (see paragraph 0045).

However as figure 8 shows, the eaves-side of the modules simply rest on the ridge side of the adjacent tile. There is no engagement of the fastening strips to the adjacent tile, and no engagement of the fastening strips to the roof and the upper portion of the ridge-side of the tiles. Last the figure shows the fastening strips are attached to an upper portion of the eaves-side of the module and not between a lower portion of the eaves-side and the upper portion of the ridge-side of the adjacent tile. Therefore the method of JP '908 does not meet all the requirements of the claims.

Claim 17 is directed to an apparatus to prevent a solar cell. module from being blown off by use of specific fastening strips. The claim requires the fastening strips to have a securing part directly secured to the roof through the ridge side end of one tile, and an engaging part coupled to an eaves-side edge of the solar module. The closest prior art is JP 2000-226908, herein referred to as JP '908. JP '908 teaches solar cell module tiles (1) that have already been laid on a roof (see Figure 6). Then, additional solar cell module tiles (1) are laid on the roof such that the eaves side of a solar cell module tile (1) to be laid is fastened to an upper portion of the ridge side of solar cell module tiles (1) that have already been laid (see Figures 6 and 8). As seen in Figure 1, the solar cell module (4) of a given solar cell module tile (1) is fastened to the eaves side of the solar cell module tiles (1) with fastening strips (8) (see also Figures 4 and 8). Alternatively, fastening strip (38) can be used, as seen in Figures 12 and 13. As seen in Figure 12, fastening strips (38) comprise a rectangular main part and the instant at least

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two rising parts that extend from the main part. The fastening strips (8) can also have a rectangular part and multiple rising parts as seen in the embodiment of Figure 17(a). Fastening strips (8, 38) prevent solar cell modules (4) from being blow off (see paragraph 0045).

However as figure 8 shows, the eaves-side of the modules simply rest on the ridge side of the adjacent tile. There is no engagement of the fastening strips to the adjacent tile, and no engagement of the fastening strips to the roof and the upper portion of the ridge-side of the tiles. The fastening strips do not have a securing part directly secured to the roof through a ridge side end of one tile. Instead the strips are secured to the base, 5, which are secured to the roof via nails, 12b, at the ridge side of the module. As there is no direct securing, the fastening strips of JP '908 do not meet all the requirements of the claim. Therefore the claim is allowable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Luan V. Van whose telephone number is 571-272-8521. The examiner can normally be reached on M-F 8:30-5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen can be reached on 571-272-1342. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Nam X Nguyen/ Supervisory Patent Examiner, Art Unit 1753

LVV September 16, 2008